

Title (en)

A method for preparing pure, gaseous carbon dioxide and an apparatus to be used therewith

Title (de)

Herstellungsverfahren von reinem, gasförmigem Kohlendioxid und Apparat zum Gebrauch dafür

Title (fr)

Procédé de la préparation de gaz de dioxyde de carbone pur et dispositif utilisé pour la mise en oeuvre

Publication

EP 0646756 B1 19990217 (EN)

Application

EP 94202659 A 19940915

Priority

NL 9301648 A 19930924

Abstract (en)

[origin: EP0646756A1] The invention relates to a method for preparing pure, gaseous CO₂ from a gaseous CO₂-containing product (2) having a lower degree of purity than the final product, by compressing (4) and cooling (5) the gaseous basic material, whereupon the gaseous impurities are discharged and the purified liquid CO₂ (27) is used as a cooling medium for cooling the gas mixture which is used as the basic material, whereby the gas mixture is compressed (8) to a pressure of 40 - 65 bar before the cooling step (12) is carried out. The invention furthermore relates to an apparatus for carrying out this method. <IMAGE>

IPC 1-7

F25J 3/08; C01B 31/20

IPC 8 full level

C01B 32/50 (2017.01); **C12F 3/02** (2006.01); **F25J 3/02** (2006.01); **F25J 3/06** (2006.01); **F25J 3/08** (2006.01)

CPC (source: EP)

C01B 32/50 (2017.07); **C12F 3/02** (2013.01); **F25J 3/08** (2013.01); **F25J 2205/02** (2013.01); **F25J 2215/04** (2013.01); **F25J 2215/80** (2013.01); **F25J 2220/82** (2013.01); **F25J 2220/84** (2013.01); **F25J 2245/02** (2013.01); **F25J 2260/80** (2013.01); **F25J 2270/02** (2013.01); **F25J 2270/80** (2013.01); **F25J 2270/90** (2013.01)

Citation (examination)

H. Hausen, H. Linde "Tieftemperaturtechnik", 2nd edition, Springer Verlag, Berlin, Heidelberg, Tokyo, New York, 1985, pages 344 to 347

Cited by

DE19940371A1; EP1308502A1; EP1050509A1; CN104748507A; EP1693442A1; NL1018708C2; CN104136870A; JP2008506620A; AU2005263928B2; AU2005263928C1; EA012122B1; EP2695946A1; WO2012123690A2; EP2638951A1; US8172926B2; WO2006008482A1; WO03011757A1; US7172639B2; WO2012140350A2; KR100910278B1

Designated contracting state (EPC)

BE DE DK ES FR GB IT NL

DOCDB simple family (publication)

EP 0646756 A1 19950405; **EP 0646756 B1 19990217**; DE 69416558 D1 19990325; DE 69416558 T2 19990617; DK 0646756 T3 19990510; ES 2128505 T3 19990516; NL 9301648 A 19950418

DOCDB simple family (application)

EP 94202659 A 19940915; DE 69416558 T 19940915; DK 94202659 T 19940915; ES 94202659 T 19940915; NL 9301648 A 19930924